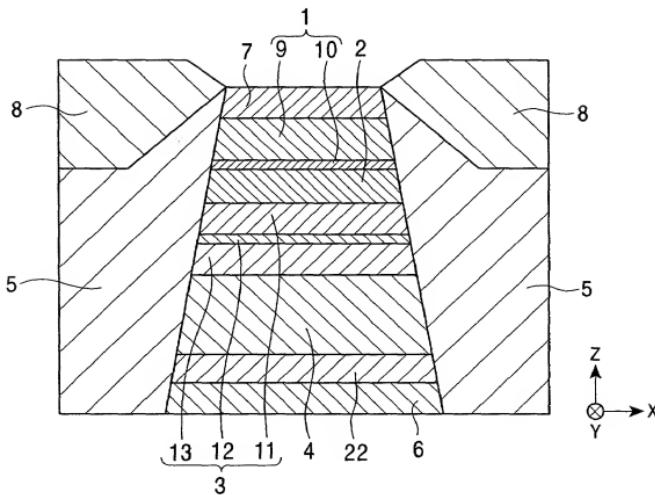


FIG. 1



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FIG. 2

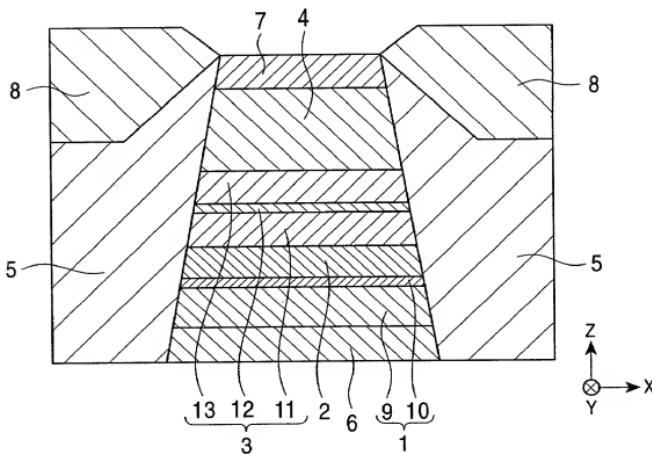
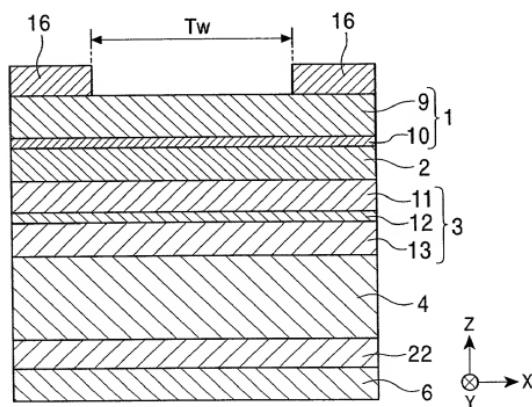


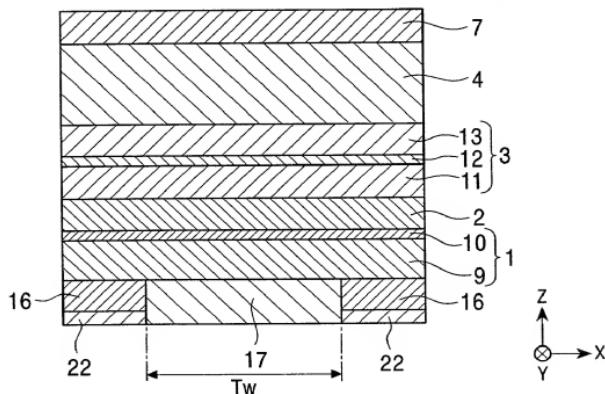
FIG. 3



09502-026500500

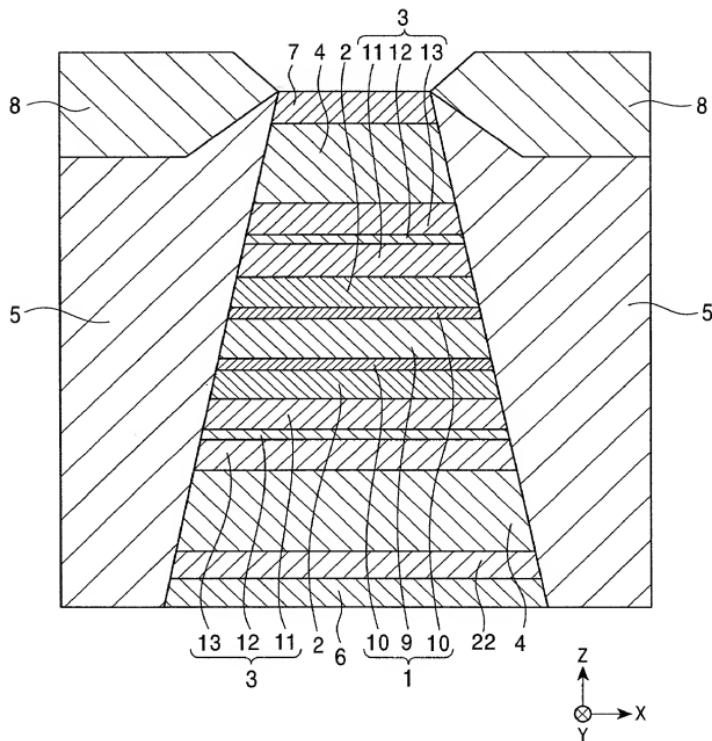
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FIG. 4



100020-26600660

FIG. 5



09090992.070951

FIG. 6

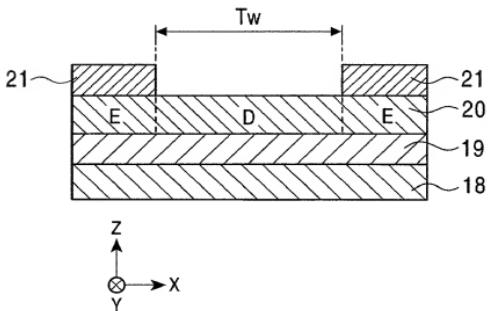
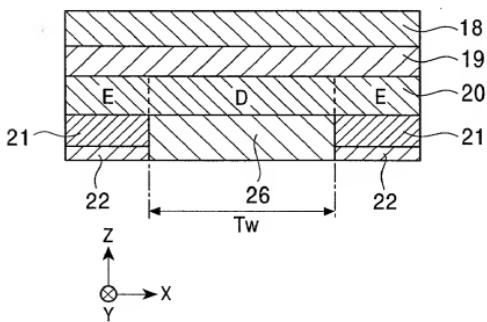
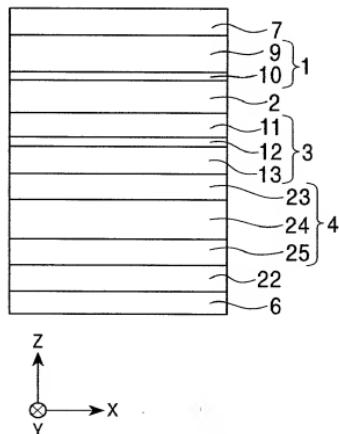


FIG. 7



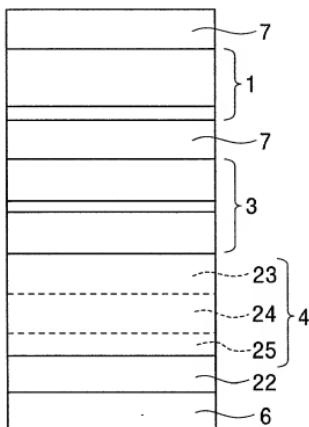
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FIG. 8



0096009600 "D/009600

FIG. 9



095000992 "D" 09501

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FIG. 10

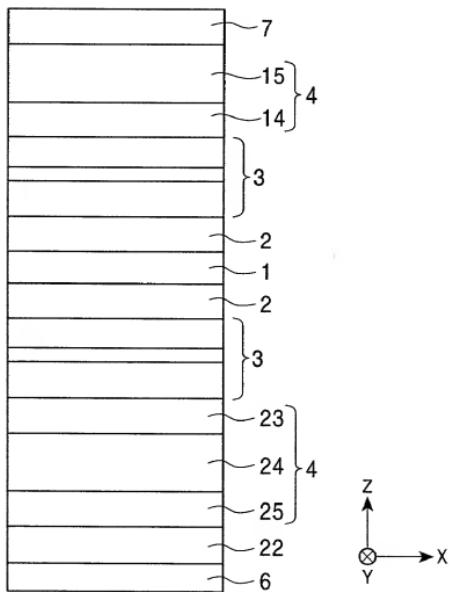
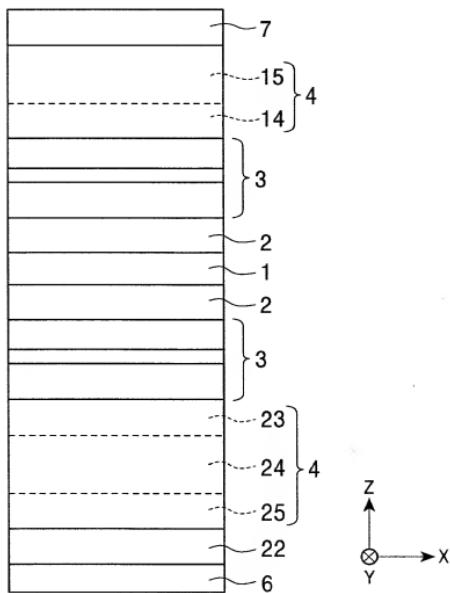


FIG. 11



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FIG. 12

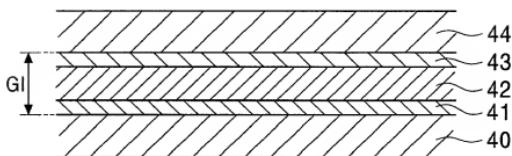
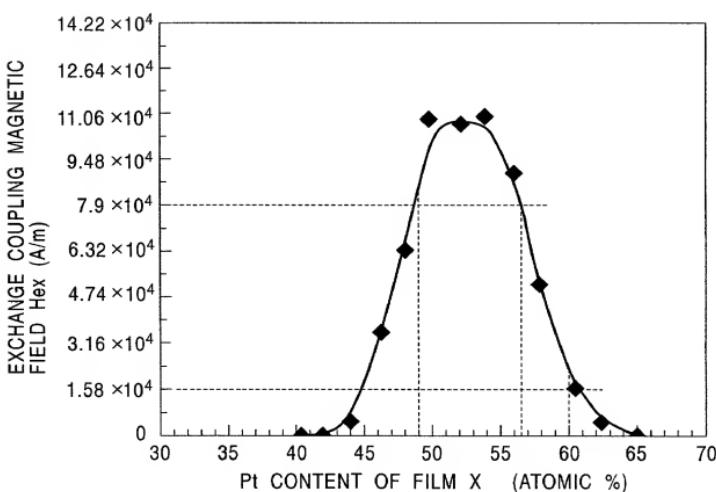


FIG. 13



FILM STRUCTURE: Si SUBSTRATE/ALUMINA/Ta(3nm)/NiFe  
(3nm)/PtMn(15nm)/Co  
(1.5nm)/Ru(0.8nm)/Co  
(2.5nm)/Cu(2.3nm)/Co  
(1nm)/NiFe(3nm)/Cu(1.5nm)/Ta(3nm)

FIG. 14

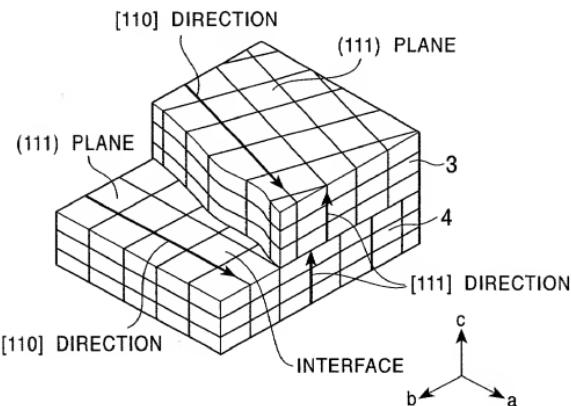


FIG. 15

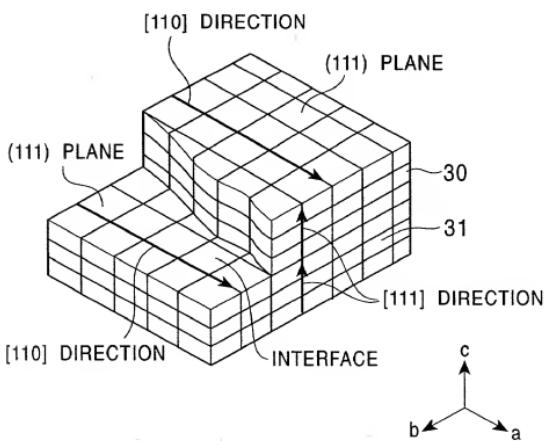


FIG. 16

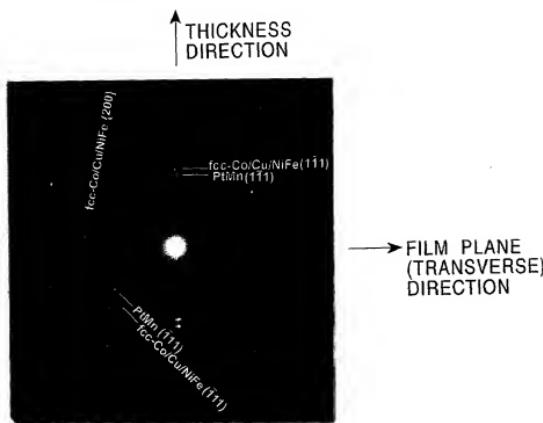
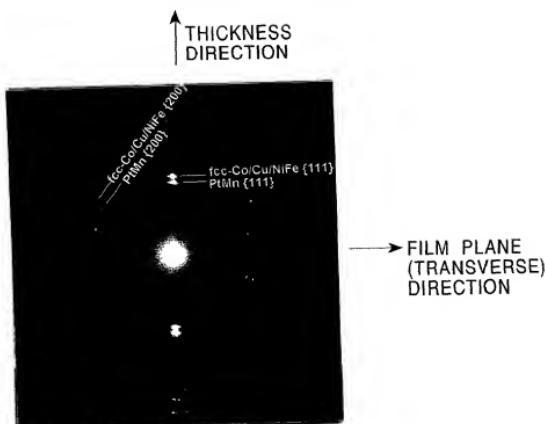


FIG. 17



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FIG. 18

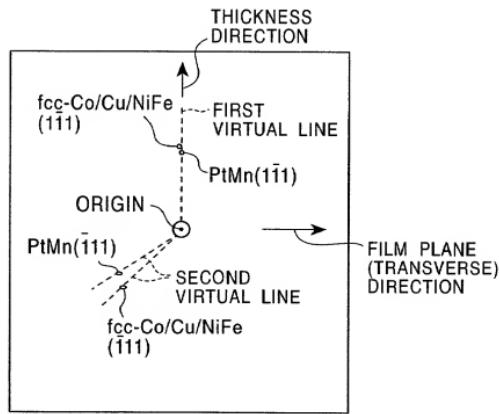
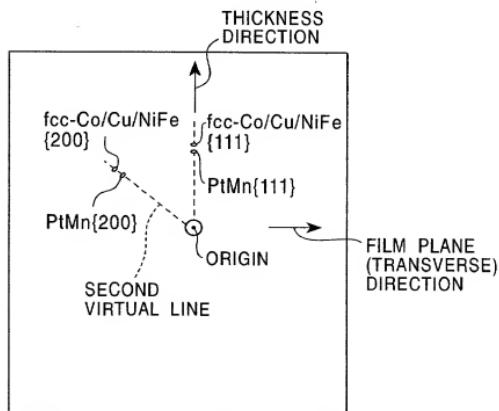


FIG. 19



105070-26600560

FIG. 20

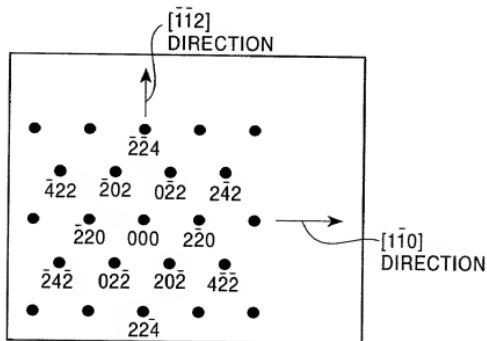


FIG. 21

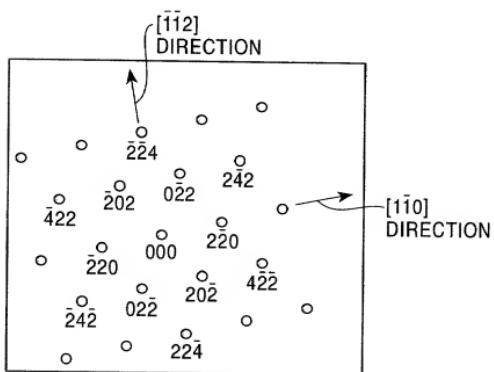


FIG. 22

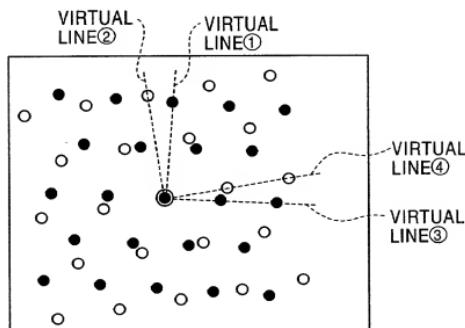
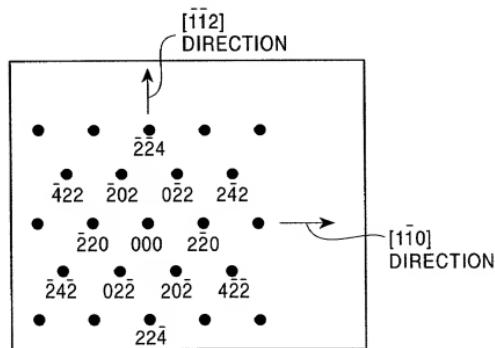


FIG. 23



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FIG. 24

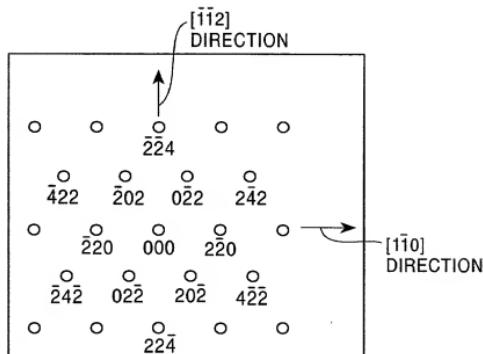


FIG. 25

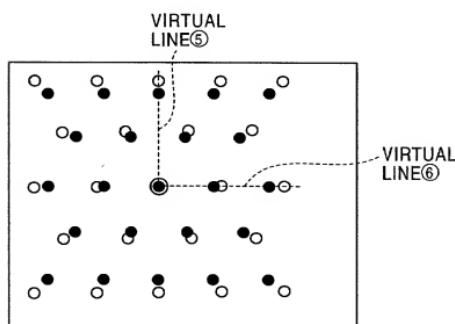


FIG. 26

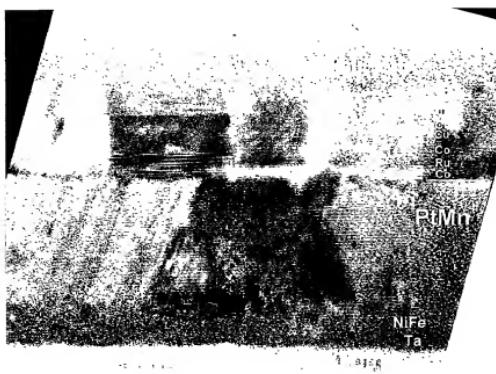


FIG. 27



06960993, 070501

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FIG. 28

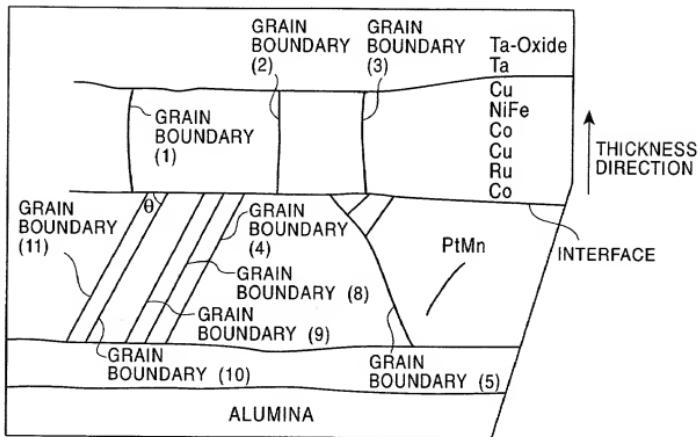
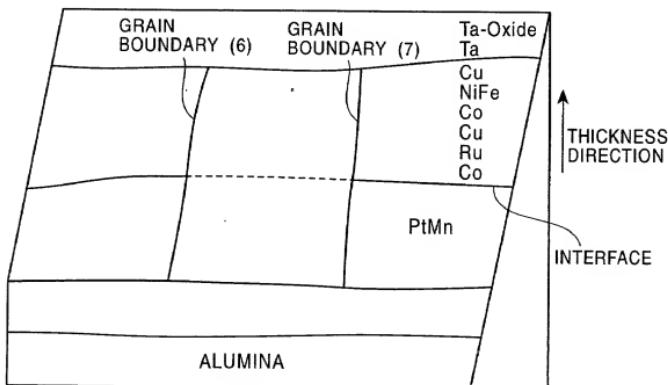


FIG. 29



1050303-26600560

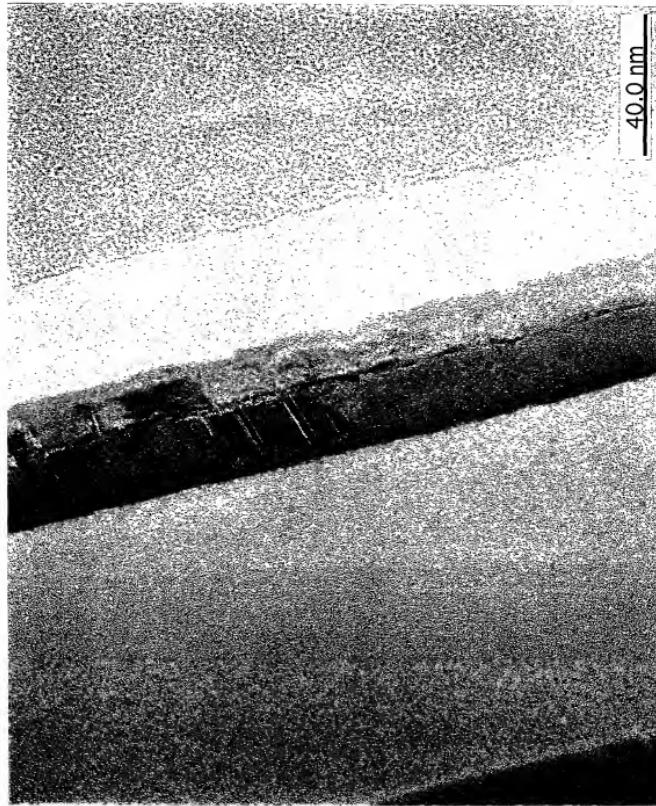


FIG. 30

20230707-2650050000

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FIG. 31

